

WEST BRANCH SUSQUEHANNA RIVER BASIN

01553700 CHILLISQUAQUE CREEK AT WASHINGTONVILLE, PA

LOCATION.--Lat 41°03'42", long 76°40'50", Montour County, Hydrologic Unit 02050206, on left bank 60 ft upstream from bridge on State Highway 54, and 0.7 mi north of U.S. Post Office in Washingtonville.

DRAINAGE AREA.--51.3 mi².

PERIOD OF RECORD.--May 1979 to current year.

REVISED RECORDS.--WDR PA-82-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 503.70 ft above National Geodetic Vertical Datum of 1929 (Pennsylvania Power and Light Co. benchmark).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow includes diversion from West Branch Susquehanna River. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 26	2315	1,210	5.80	May 13	1745	*3,220	*9.81

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	19	122	18	199	19	77	68	37	19	18	15
2	20	19	65	19	139	18	56	298	29	18	17	15
3	19	18	47	19	101	45	49	207	25	17	16	15
4	16	17	38	19	86	33	41	115	22	16	16	14
5	16	17	33	20	60	24	36	84	21	18	19	14
6	18	17	30	21	50	24	34	64	205	18	19	14
7	17	19	28	25	48	24	30	54	322	18	17	14
8	19	20	32	22	44	22	29	44	93	18	16	15
9	19	22	113	21	39	22	28	255	59	17	15	15
10	19	23	61	21	51	33	28	148	45	17	15	14
11	18	18	48	25	353	25	24	91	38	15	15	15
12	18	16	40	28	128	24	21	454	35	15	14	15
13	e18	17	41	29	100	25	22	1650	35	15	14	15
14	e20	18	45	28	74	25	33	1230	88	16	15	14
15	e26	16	64	29	64	23	296	389	367	16	15	15
16	22	15	40	32	61	78	166	184	263	15	14	16
17	23	17	74	33	52	55	91	98	107	15	14	15
18	21	17	225	35	42	56	68	492	69	14	14	15
19	21	17	128	29	37	58	59	206	51	16	13	15
20	19	17	86	e28	36	201	53	127	41	16	14	16
21	18	16	61	27	37	222	46	91	35	15	14	17
22	17	16	47	26	32	126	44	73	30	15	13	36
23	17	16	41	27	28	e100	39	62	27	19	14	98
24	20	16	43	58	25	e90	36	52	25	22	16	27
25	19	53	35	100	23	e80	38	45	25	17	15	20
26	19	73	30	86	23	342	38	42	22	16	14	48
27	20	38	27	77	27	663	34	38	25	19	14	141
28	20	31	e24	71	22	208	65	34	31	23	14	178
29	19	36	e22	75	---	124	116	52	22	22	14	57
30	19	62	e20	157	---	93	80	41	20	19	14	37
31	19	---	e18	204	---	72	---	38	---	18	14	---
TOTAL	597	716	1728	1409	1981	2954	1777	6826	2214	534	466	955
MEAN	19.26	23.87	55.74	45.45	70.75	95.29	59.23	220.2	73.80	17.23	15.03	31.83
MAX	26	73	225	204	353	663	296	1650	367	23	19	178
MIN	16	15	18	18	22	18	21	34	20	14	13	14
CFSM	0.38	0.47	1.09	0.89	1.38	1.86	1.15	4.29	1.44	0.34	0.29	0.62
IN.	0.43	0.52	1.25	1.02	1.44	2.14	1.29	4.95	1.61	0.39	0.34	0.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2002, BY WATER YEAR (WY)

MEAN	45.15	80.71	90.60	78.97	100.5	125.7	108.4	70.15	56.01	32.41	28.77	34.43
MAX	211	149	274	269	243	336	286	228	221	102	87.0	99.8
(WY)	1991	1987	1997	1996	1981	1994	1993	1989	1982	1984	1990	1987
MIN	16.5	23.4	22.2	20.7	25.6	38.3	34.4	17.8	16.0	12.9	15.0	13.0
(WY)	1983	2001	1990	2001	1993	1981	1997	2001	1991	1999	2002	1995

e Estimated.

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1979 - 2002	
ANNUAL TOTAL	17131		22157		70.8	
ANNUAL MEAN	46.9		60.7		108	
HIGHEST ANNUAL MEAN					108	1984
LOWEST ANNUAL MEAN					48.1	2001
HIGHEST DAILY MEAN	620	Jun 23	1650	May 13	2080	Mar 15 1986
LOWEST DAILY MEAN	13	May 16,17 ^a	13	Aug 19,22	6.2	Jul 27 1991
ANNUAL SEVEN-DAY MINIMUM	14	Aug 21	14	Aug 16	7.6	Jul 27 1999
MAXIMUM PEAK FLOW			b 3220	May 13	b 3770	Jan 19 1996
MAXIMUM PEAK STAGE			9.81	May 13	11.27	Jan 19 1996
ANNUAL RUNOFF (CFSM)	0.91		1.18		1.38	
ANNUAL RUNOFF (INCHES)	12.42		16.07		18.74	
10 PERCENT EXCEEDS	107		118		142	
50 PERCENT EXCEEDS	20		26		35	
90 PERCENT EXCEEDS	15		15		17	

a Also Aug. 9, 14, 15, 24-27.

b From rating curve extended above 2,600 ft³/s.

